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# EXHAUST EMISSION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

(JP2002097930)


PROBLEM TO BE SOLVED: To execute forced regeneration in the proper timing, by precisely grasping a capture amount of particulates by continuous combustion.


SOLUTION: A particulate filter capturing exhaust particulates is interposed in an exhaust passage, and in the upstream thereof, an oxidation catalyst is arranged, NO<sub>2</sub> converted by catalytic action from NO in exhaust is utilized, continuous combustion of particulates is performed from the lower temperature. A particulate generation amount B and a combustion speed constant R corresponding to an operating condition are read from a map (step 2), this time particulate capture amount D<sub>0</sub> is estimated by a prescribed operation expression (step 3) When this amount is increased to an upper limit value D<sub>lim</sub> or more, forced regeneration is started. Here in each regeneration condition comprising combination of a plurality of regeneration means, the particulate capture amount is calculated, the regeneration condition making the estimated particulate capture amount come to the smallest value is selected as that of the best efficiency.

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